



IPW

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Andrew F. Knight  
Title: PRESSURIZER FOR A ROCKET ENGINE  
Appl. No.: 10/629,685  
Filing Date: July 30, 2003  
Examiner: Unknown  
Art Unit: 3746

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please consider the following information.

**Timing of the IDS**

This IDS is being submitted before the mailing of a first Office Action on the merits.

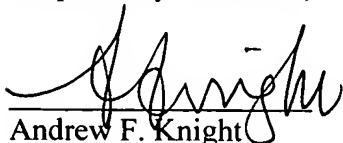
**Relevant Publications**

A Form PTO/SB/08B is attached (2 pages), listing various publications. Further, a video (.MPG format) regarding XCOR's piston pump has been downloaded from its website at www.xcor.com and submitted on the attached CD-ROM.

**Conclusion**

Applicant respectfully requests a first action on the merits. If the Examiner believes that a telephone conference will further prosecution of the present case, the Examiner is invited to contact Applicant at the number indicated below.

Respectfully submitted,

  
Andrew F. Knight

5/17/04  
Date

Applicant  
703-795-7375



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

Application Number

10/629,685

Filing Date

July 30, 2003

First Named Inventor

Andrew F. Knight

Art Unit

3746

Examiner Name

Attorney Docket Number

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	B3	J.C. WHITEHEAD, "Mars Ascent Propulsion Options for Small Sample Return Vehicles", July 1997, AIAA 97-2950,	
	B4	J.C. WHITEHEAD et al, "Pumped Hydrazine Miniaturized Propulsion System", July 1989, AIAA 89-2958	
	B5	J.C. WHITEHEAD, "Free Piston Pumps for miniature Rocket Propulsion", June 1991, AIAA 91-1837	
	B6	J.C. WHITEHEAD, "Demand thrust Pumped propulsion with Automatic Warm Gas Valving", July 1992, AIAA 92-3539	
	B7	J.C. WHITEHEAD, "Test Results for a Reciprocating Pump Powered by Decomposed Hydrogen Peroxide", July 2001, AIAA-2001-3839	
	B8	J.C. WHITEHEAD, "Hydrogen Peroxide Gas Generator Cycle with a Reciprocating Pump", July 2002, AIAA 2002-3702	
	B9	J.C. WHITEHEAD et al, "Design and Flight Testing of a Reciprocating Pump Fed Rocket", June 1994, AIAA 94-3031	
	B10	D.E. EDDLEMAN et al, "Reciprocating Feed System for Advanced Space Propulsion Systems", April 2004, AIAA Student Conference	
	B11	W. HAMMACK, "XCOR Aerospace Announces New Rocket Engine Pump Design", April 27, 2002, www.xcor.com	
	B12	W. HAMMACK, "XCOR Passes Major Milestone on DARPA Piston Pump contract", Sept. 26, 2003, www.xcor.com	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Sheet	2	of	2	Application Number	10/629,685
				Filing Date	July 30, 2003
				First Named Inventor	Andrew F. Knight
				Art Unit	3746
				Examiner Name	
				Attorney Docket Number	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	B13	Video footage of Piston Pump in operation. Downloaded from www.xcor.com and submitted on CD.	

Examiner Signature		Date Considered	
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